

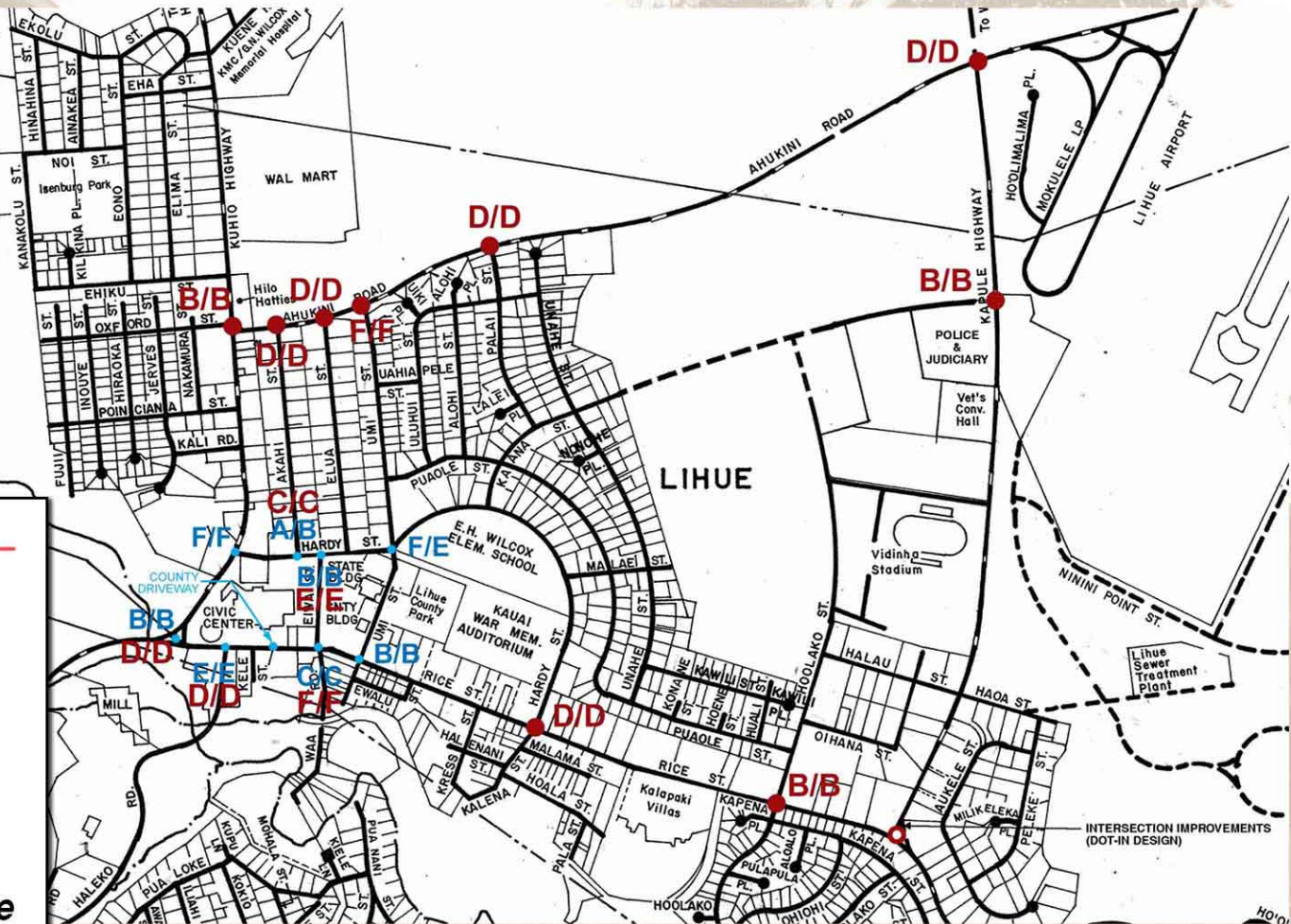
# EXISTING TRAFFIC LEVEL OF SERVICE

## LEGEND

- TRAFFIC COUNTS FOR LIHUE TOWN CORE TRAFFIC STUDY, 2004-2005
- DEPENDENT UPON DOT SCHEDULE
- INTERSECTIONS STUDIED IN NOV 2003 CIVIC CENTER TRAFFIC STUDY

## LEVEL OF SERVICE

- A, B = Uncongested, free flowing traffic
- C = Light congestion, occasional backups
- D = Congestion on critical approaches but still functional & acceptable
- E = Severe congestion, long delays at intersections
- F = Total breakdown, extreme delays and queuing occurs



# TRANSPORTATION NETWORKS

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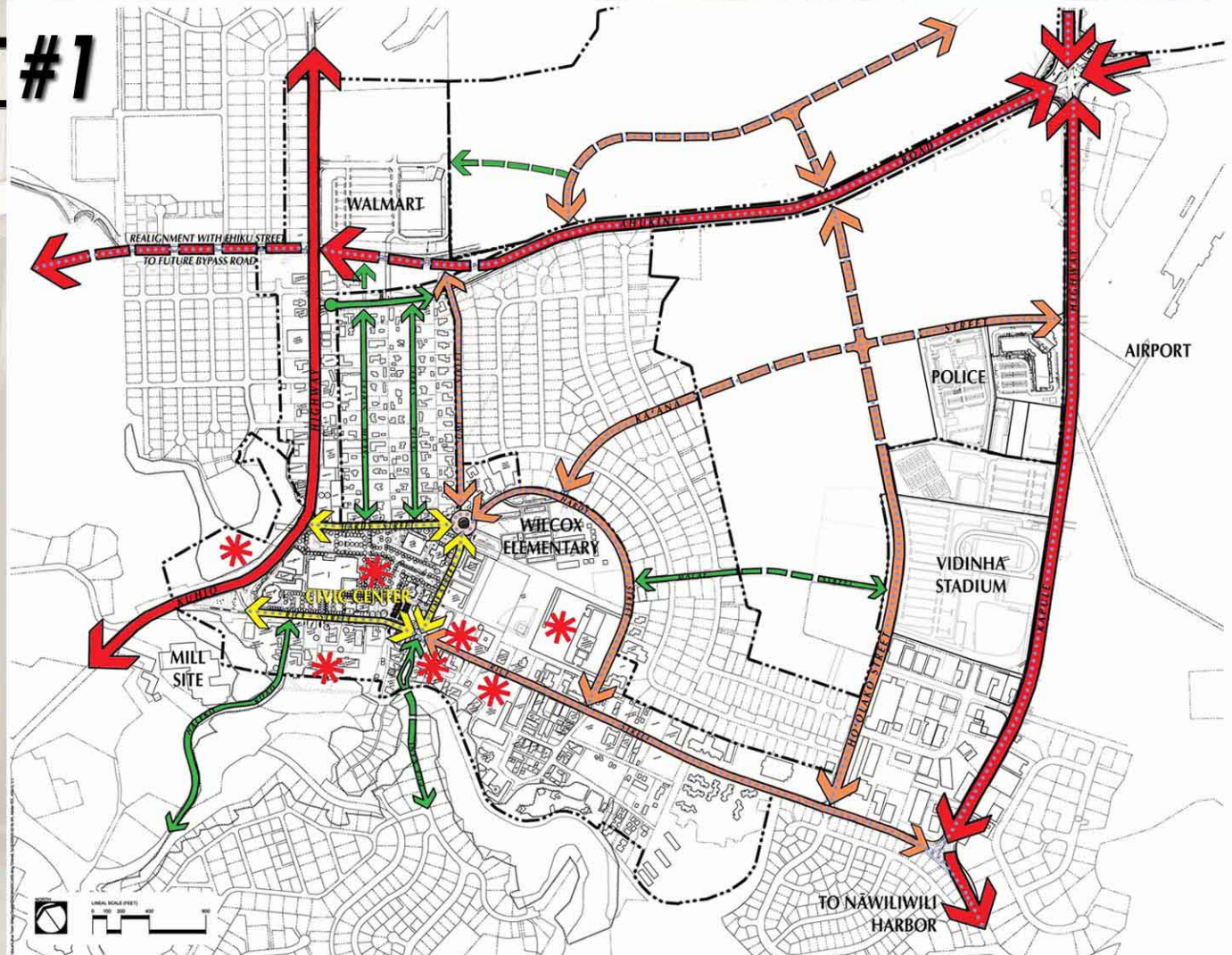
- The following slides describe 2 concepts for the potential transportation network in Līhu'e.
- In both concepts, the idea is to shift east-west traffic from Rice Street to an expanded 4-lane Ahukini Road as proposed in the State's Long Range Land Transportation Plan (LRLTP) for Kaua'i. Ahukini would be realigned to intersect with Ehiku Street and Kūhiō Highway.
- The LRLTP also proposes a Līhue Bypass Road that would connect to the Kūhiō/Ahukini intersection and bypass Līhu'e Town on the mauka side of Kūhiō/Kaumuali'i Highway. It would reconnect with Kaumuali'i Highway near Kukui Grove Shopping Center and in Puhi.
- Kapule Highway would be expanded to 4 lanes as proposed in the LRLTP.
- Ka'ana and Ho'olako Streets would be completed as planned by the County.
- The two concepts differ only in the Civic Center along Rice and Hardy Streets.
- At the end of the slideshow, you will be given an opportunity to vote for your preferences and please feel free to provide additional comments on the concepts.



# TRANSPORTATION NETWORKS

## CONCEPT #1

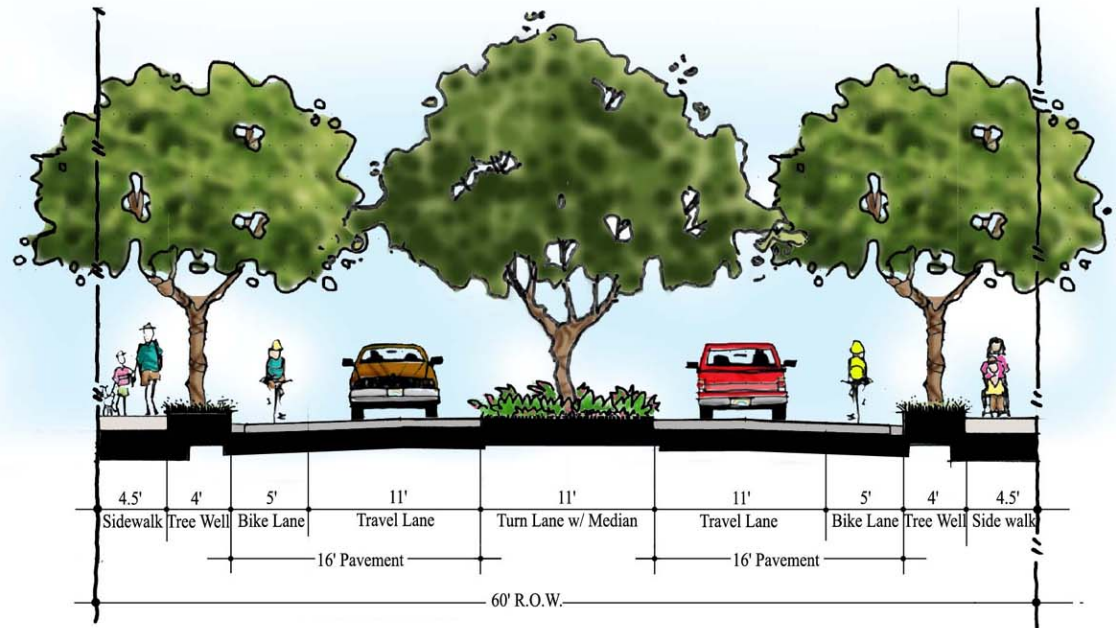
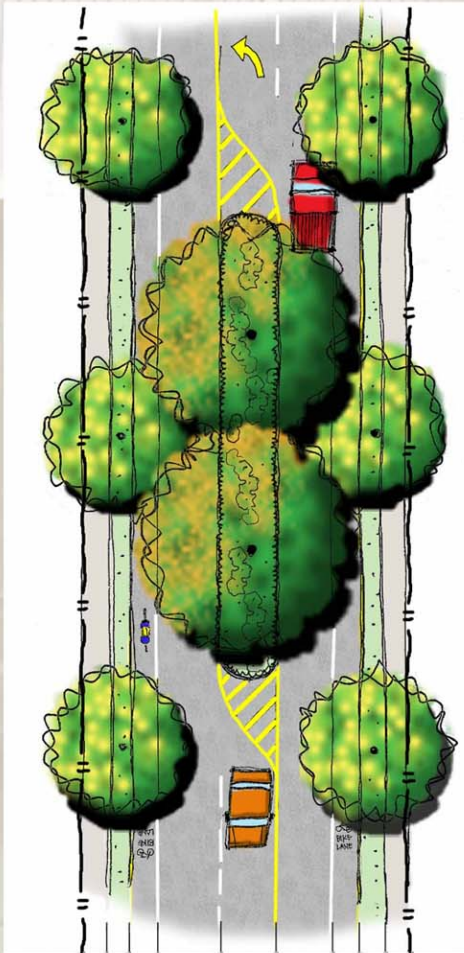
- **Red:** 4 lane collector
- **Orange:** 2 lanes with parallel parking on both sides. Parking lanes become travel lanes during rush hour
- **Yellow:** 2 lanes with center median/turn lane
- **Green:** 2 lanes
- **\*Red Stars:** potential parking structures





# TRANSPORTATION NETWORKS

## 2-WAY RICE AND HARDY STREETS – OPTION 1

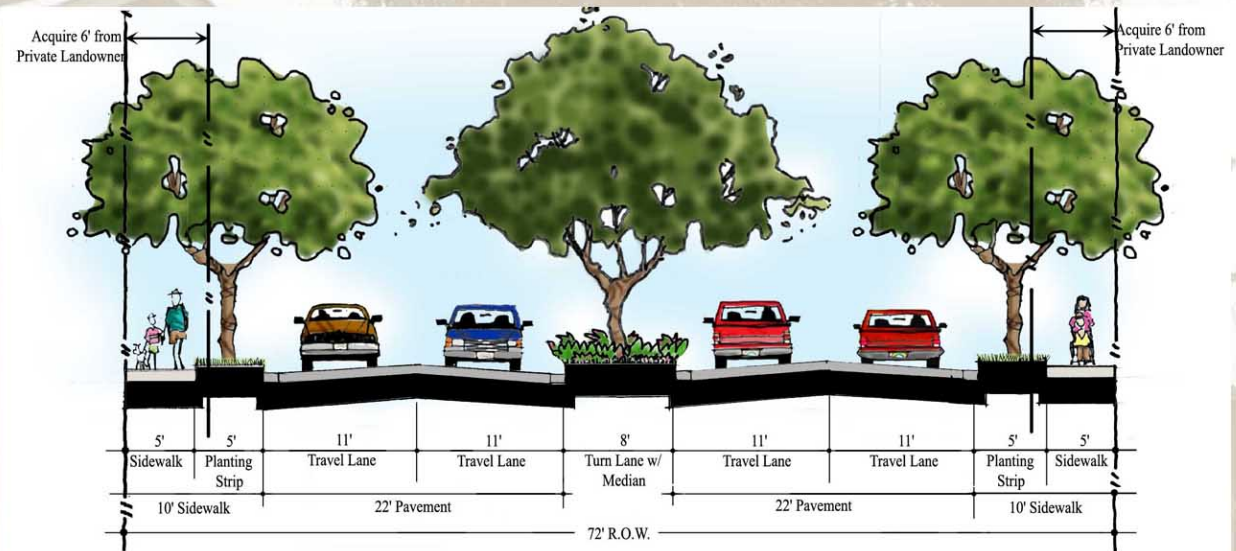
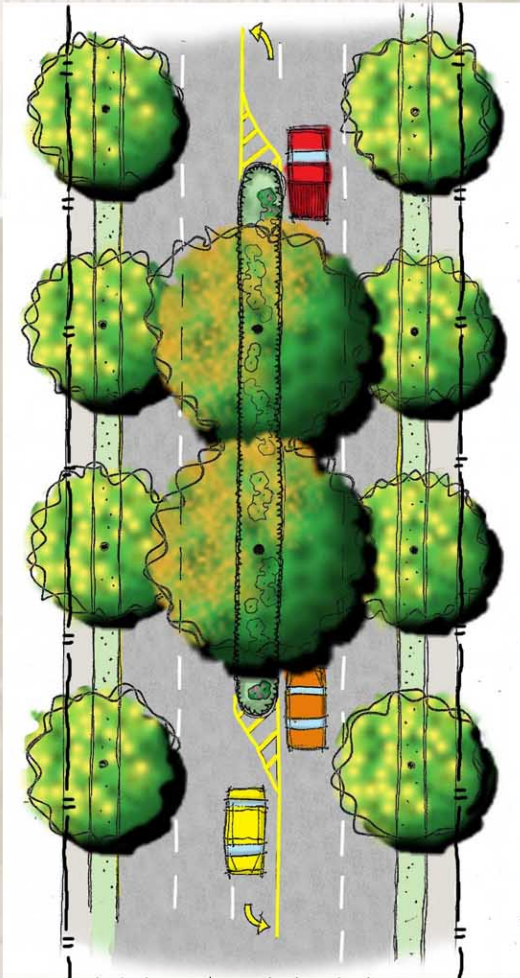


- TWO LANES OF TRAFFIC
- CENTER MEDIAN/TURN LANE
- BIKE LANES
- CAN BE BUILT WITHIN EXISTING RIGHT-OF-WAY



# TRANSPORTATION NETWORKS

## 2-WAY RICE AND HARDY STREETS – OPTION 2



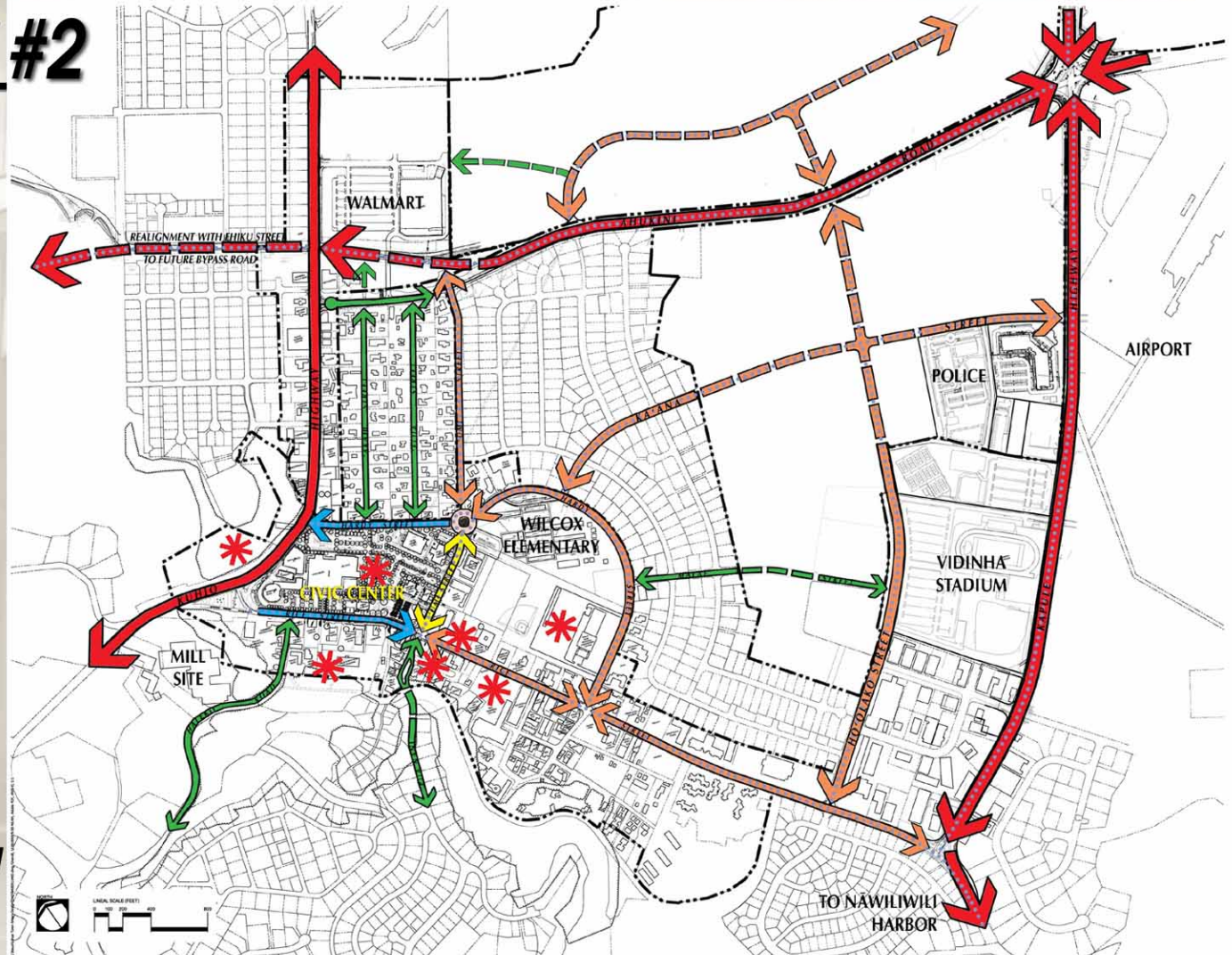
- **FOUR LANES OF TRAFFIC**
- **CENTER MEDIAN/TURN LANE**
- **NO BIKE LANES**
- **REQUIRES ACQUISITION OF LAND**  
(COULD BE REDUCED IF CENTER  
TURN LANE/MEDIAN ELIMINATED)



# TRANSPORTATION NETWORKS

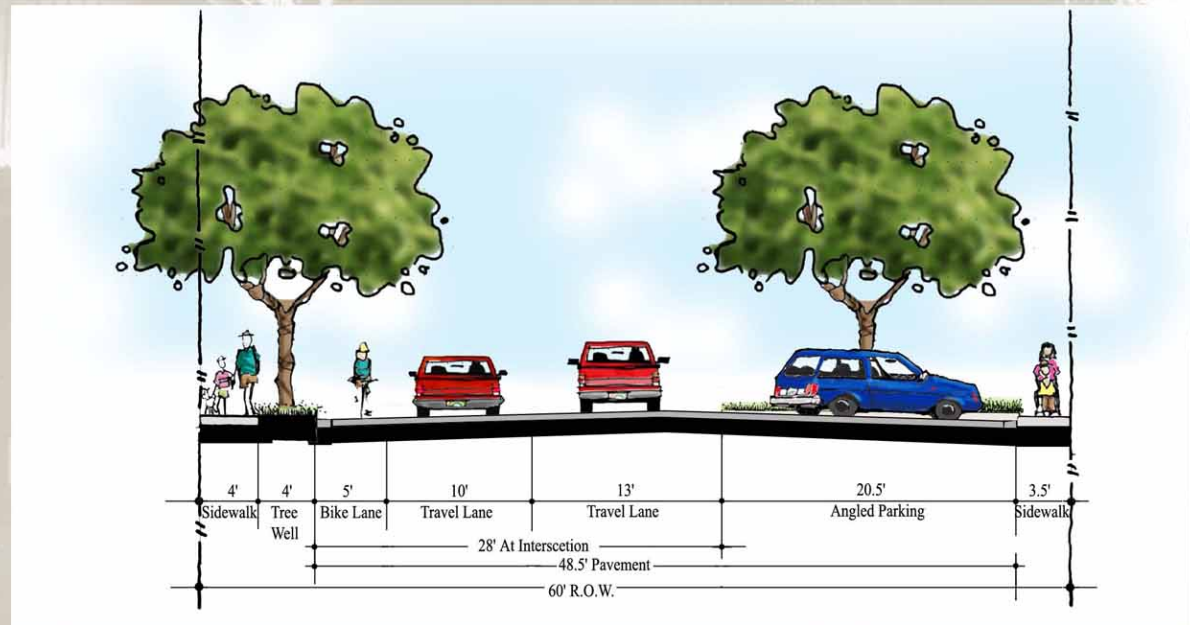
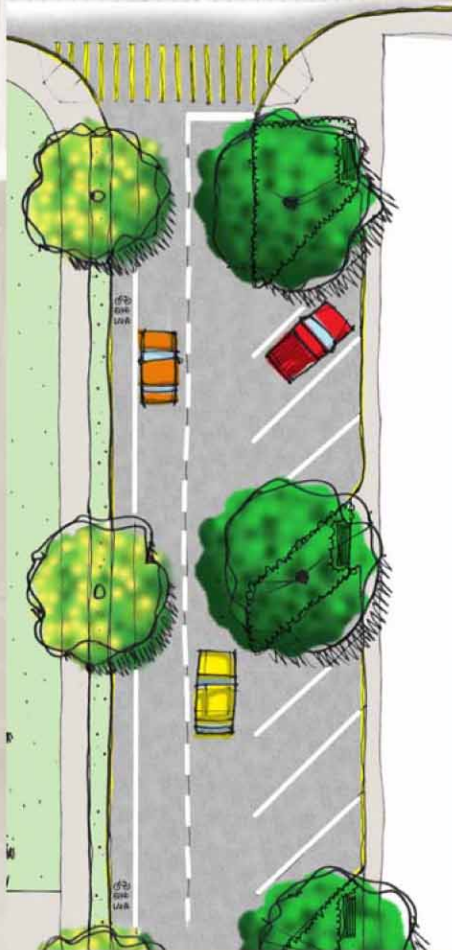
## CONCEPT #2

- **Red:** 4 lane collector
- **Orange:** 2 lanes with parallel parking on both sides. Parking lanes become travel lanes during rush hour
- **Yellow:** 2 lanes with center median/turn lane
- **Green:** 2 lanes
- **Blue:** one way with angled parking (direction could be reversed)
- **\*Red Stars:** potential parking structures



# TRANSPORTATION NETWORKS

## ONE-WAY RICE AND HARDY STREETS – OPTION 1

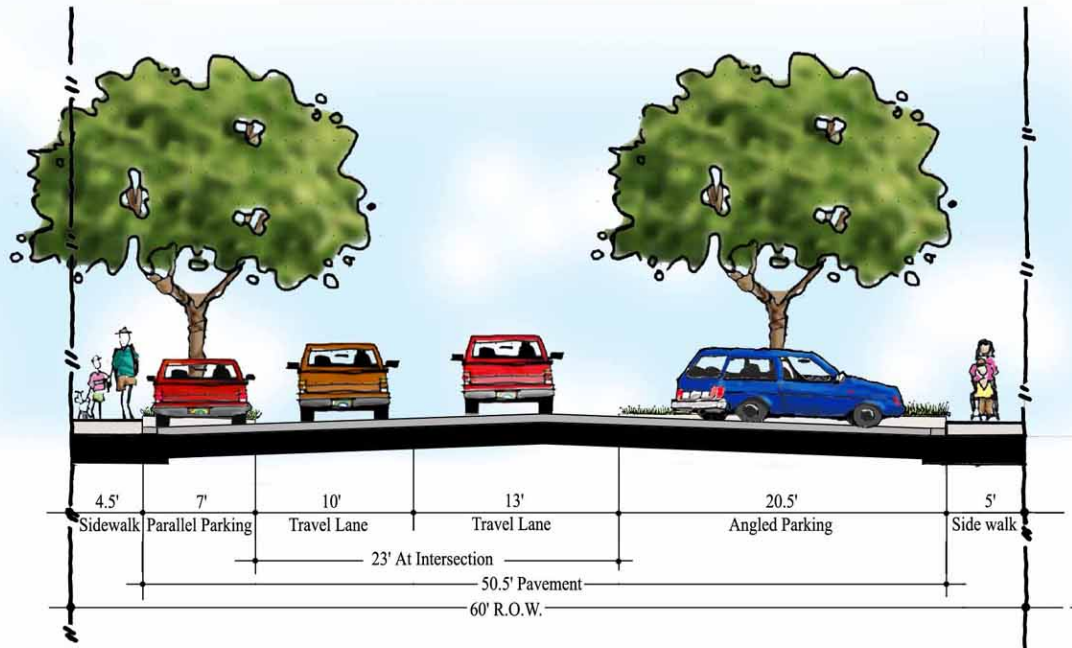
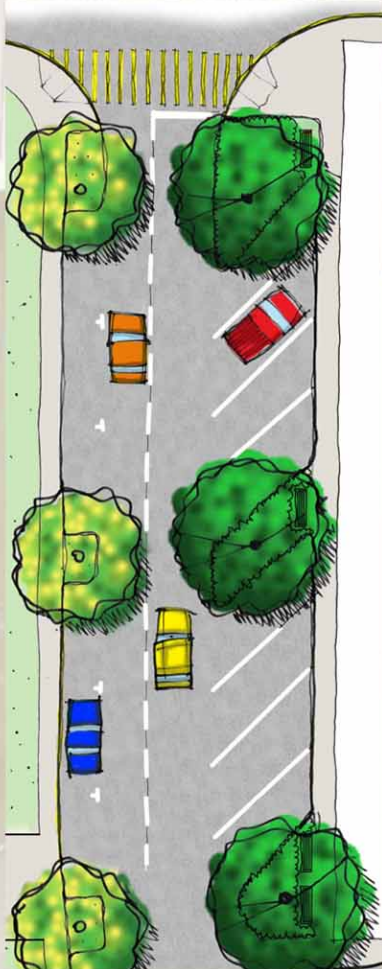


- TWO LANES OF ONE-WAY TRAFFIC
- BIKE LANE
- ANGLED PARKING ADJACENT TO BUSINESSES



# TRANSPORTATION NETWORKS

## ONE-WAY RICE AND HARDY STREETS – OPTION 2

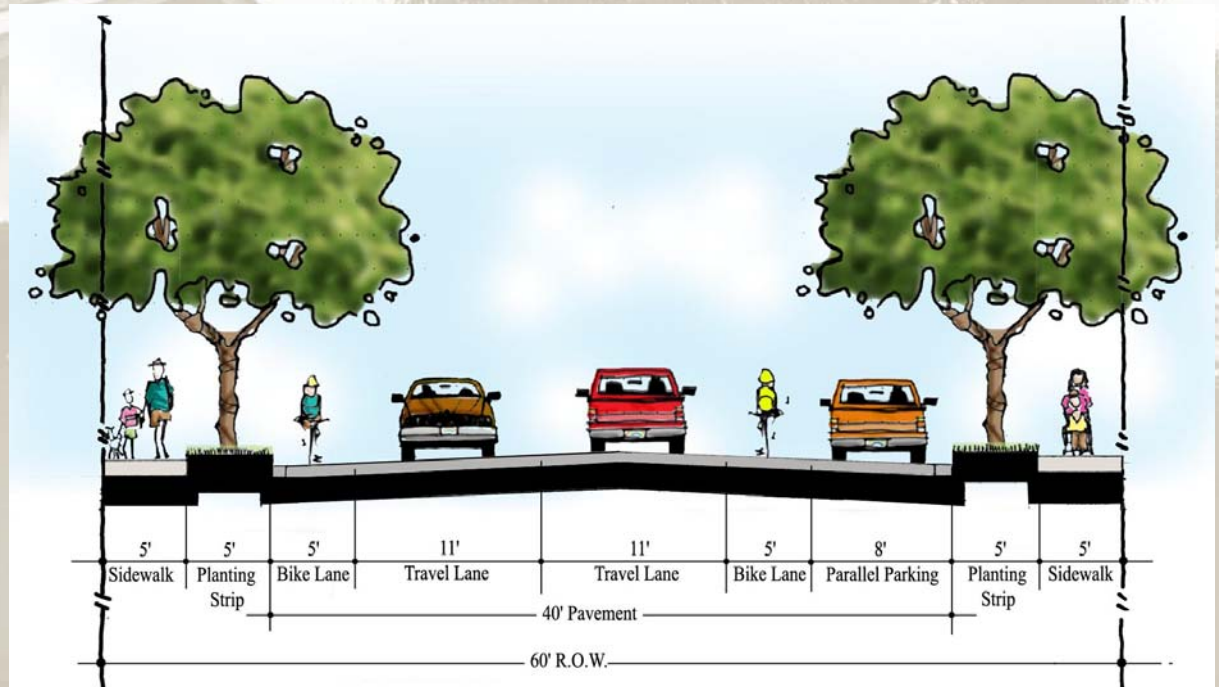
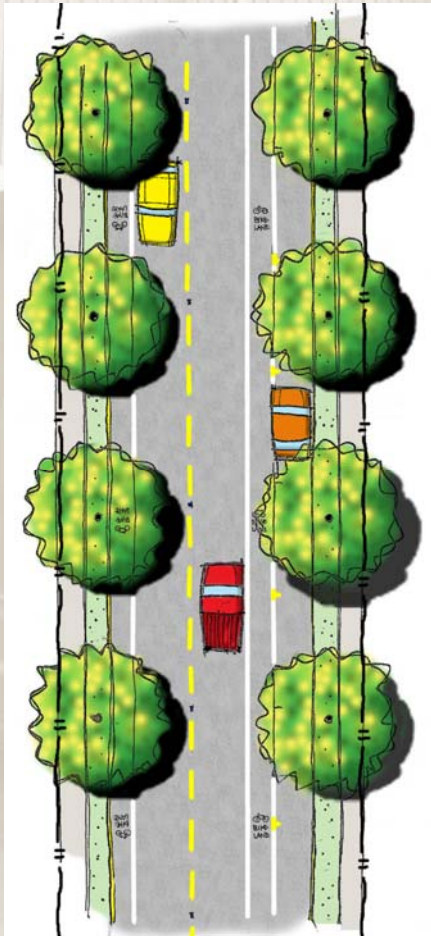


- TWO LANES OF ONE-WAY TRAFFIC
- NO BIKE LANE
- PARALLEL AND ANGLED PARKING
- BULB-OUTS AT INTERSECTIONS REDUCE DISTANCE AT PEDESTRIAN CROSSINGS



# TRANSPORTATION NETWORKS

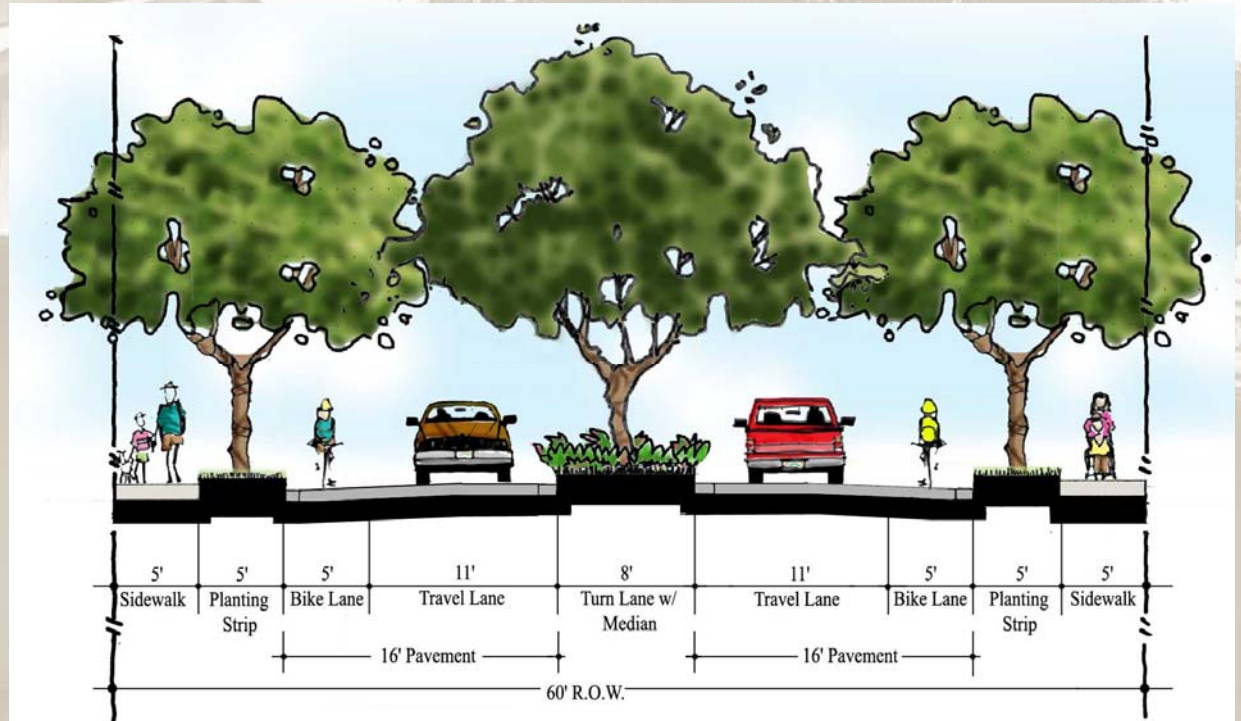
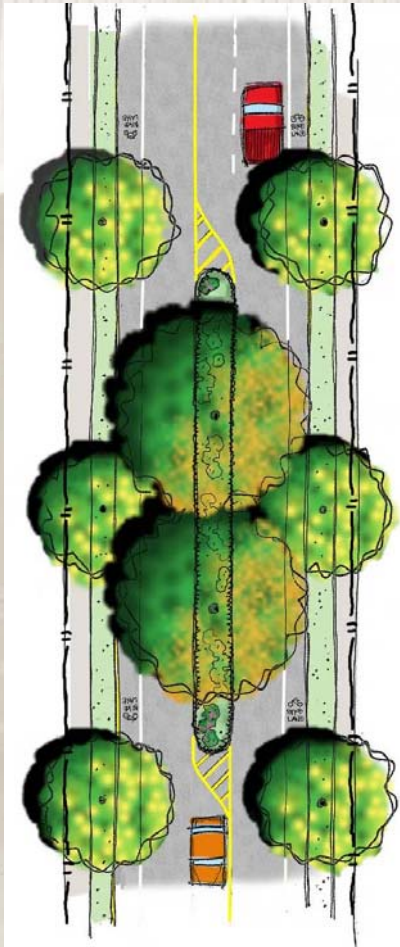
## 'UMI STREET – OPTION 1



- TWO LANES OF TRAFFIC
- BIKE LANES
- PARALLEL PARKING ON ONE SIDE OF THE STREET

# TRANSPORTATION NETWORKS

## 'UMI STREET – OPTION 2



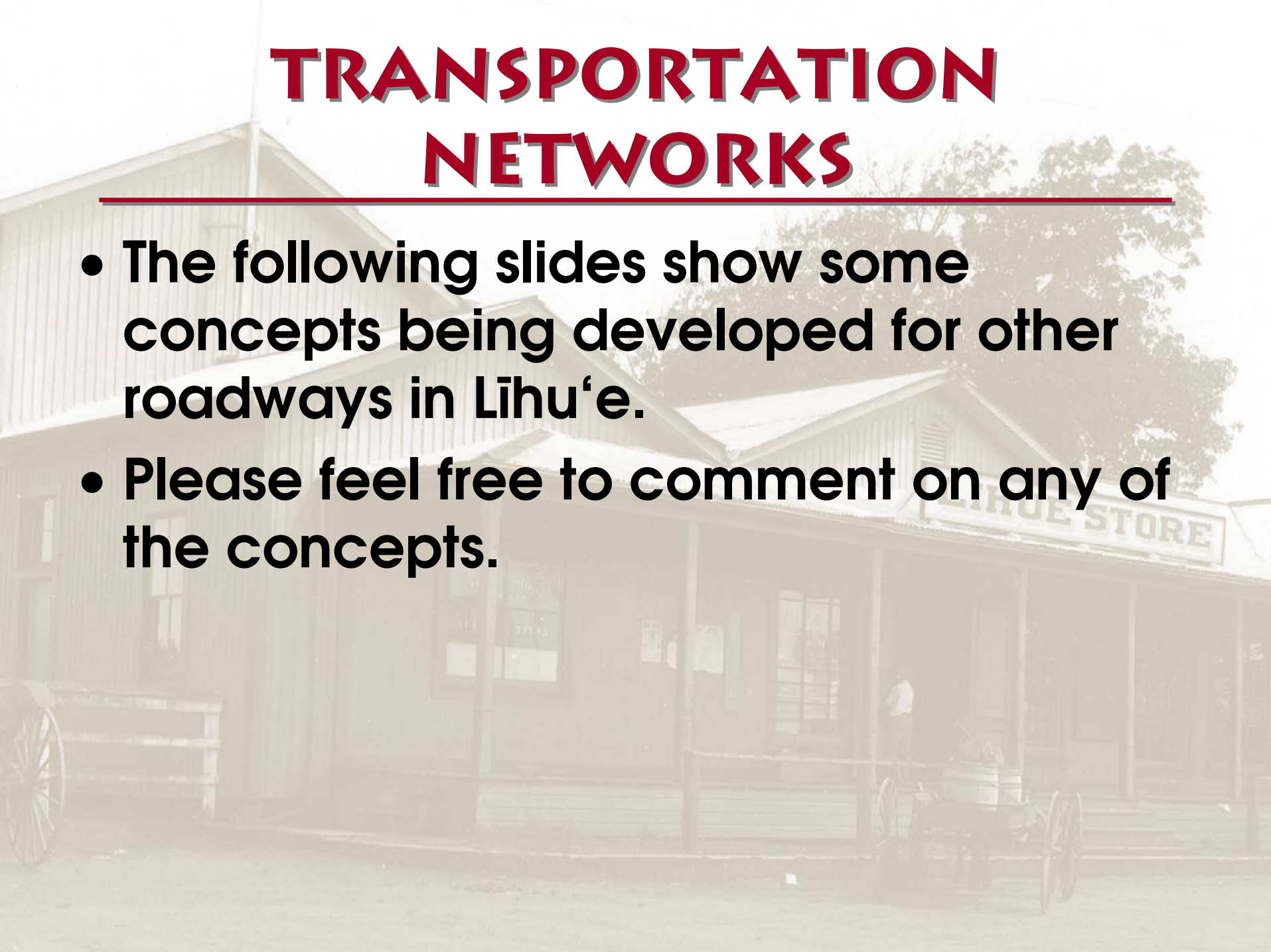
- TWO LANES OF TRAFFIC
- CENTER MEDIAN WITH TURN LANE
- BIKE LANES
- NO STREET PARKING



# TRANSPORTATION NETWORKS

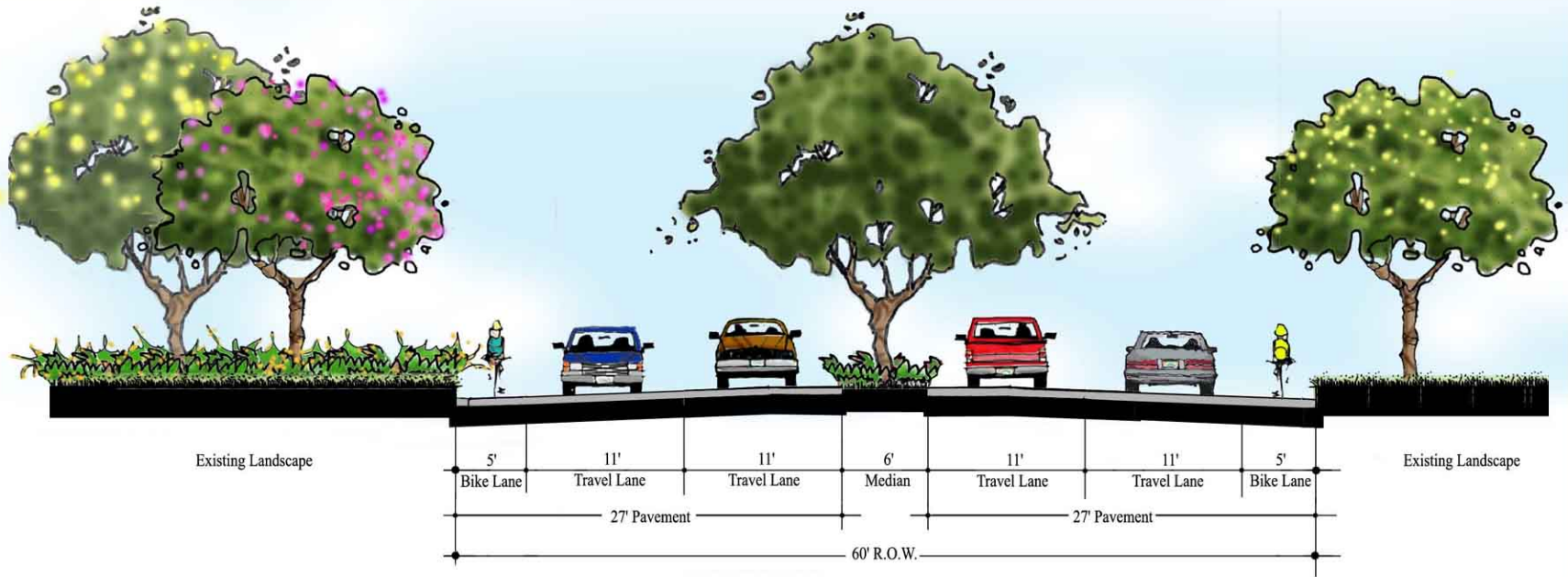
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- The following slides show some concepts being developed for other roadways in Līhu'e.
- Please feel free to comment on any of the concepts.



# TRANSPORTATION NETWORKS

## AHUKINI ROAD AND KAPULE HIGHWAY

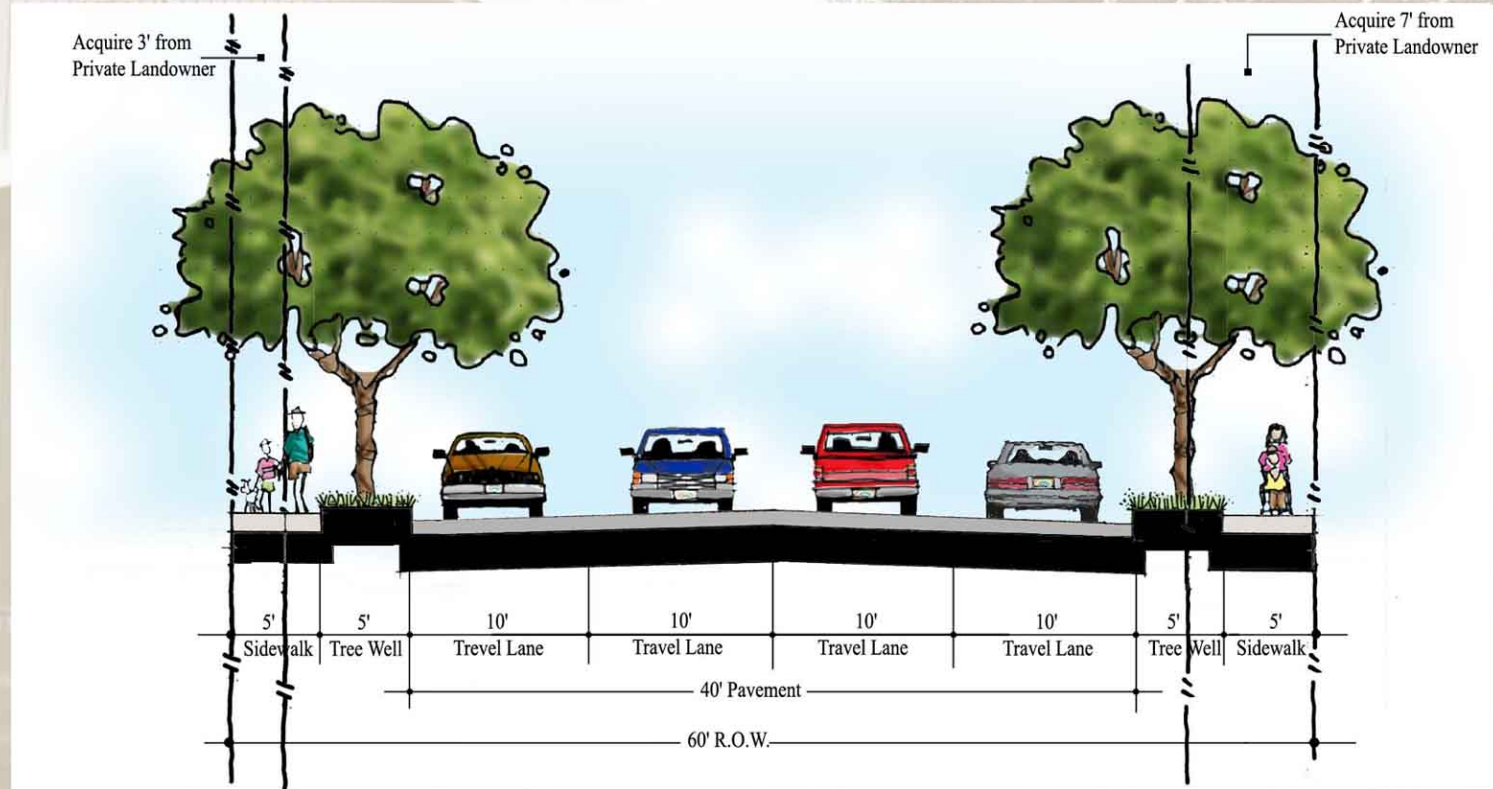


- **TWO LANES OF TRAFFIC**
- **CENTER MEDIAN**
- **NO PARKING**
- **BIKE LANES**
- **CAN BE BUILT WITHOUT REMOVING EXISTING GATEWAY LANDSCAPING**



# TRANSPORTATION NETWORKS

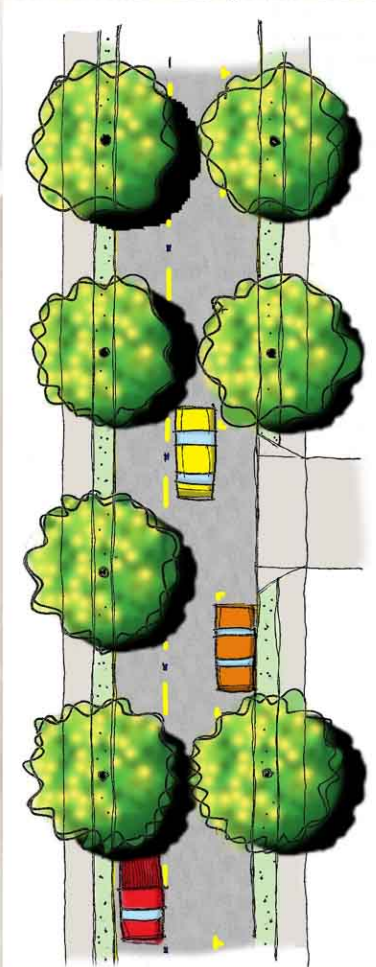
## KŪHIŌ HIGHWAY



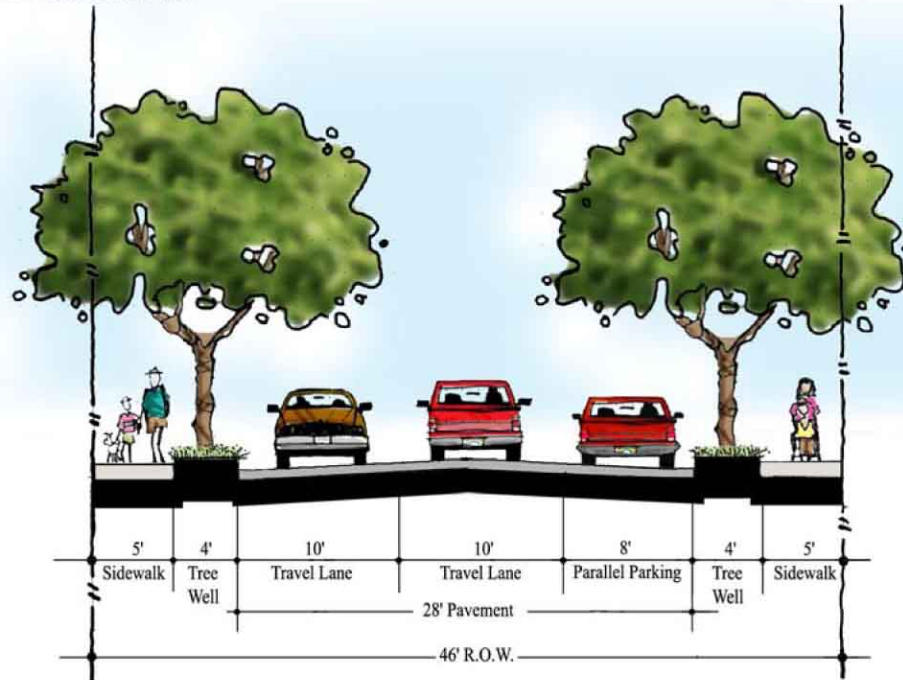
- **FOUR LANES OF TRAFFIC**
- **REQUIRES ACQUISITION OF LAND OR EASEMENTS FOR LANDSCAPING, TREE WELLS AND/OR WIDER SIDEWALKS**

# TRANSPORTATION NETWORKS

## 'AKAHI/'ELUA STREETS



Residential / Akahi / Elua Street

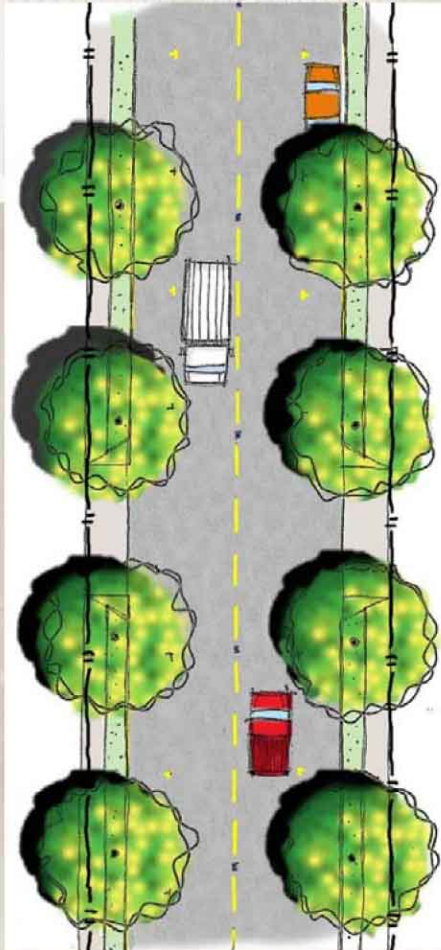


- TWO LANES OF TRAFFIC
- PARALLEL PARKING ON ONE SIDE
- BIKES SHARE ROADWAY
- REQUIRES LAND ACQUISITION (2 FEET)

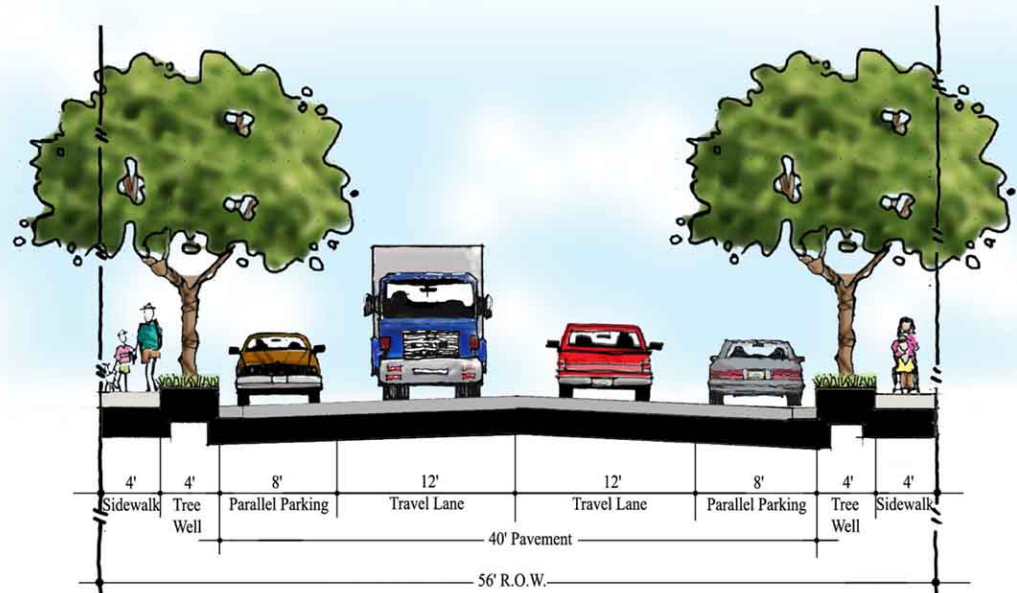


# TRANSPORTATION NETWORKS

## INDUSTRIAL STREETS – EXISTING INDUSTRIAL



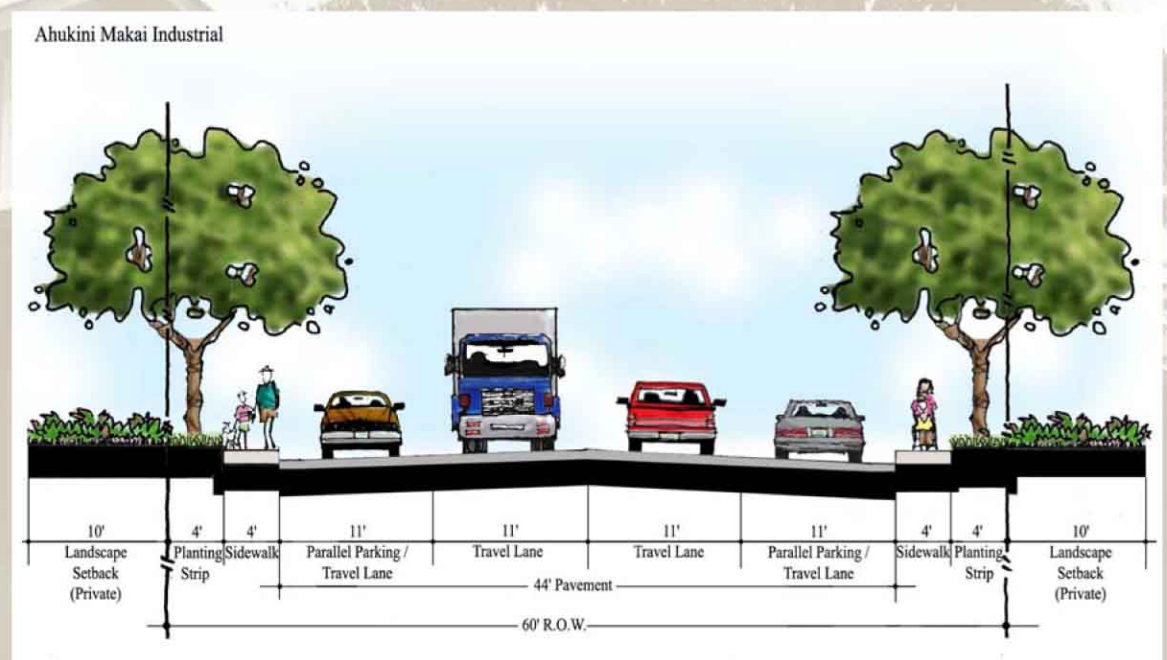
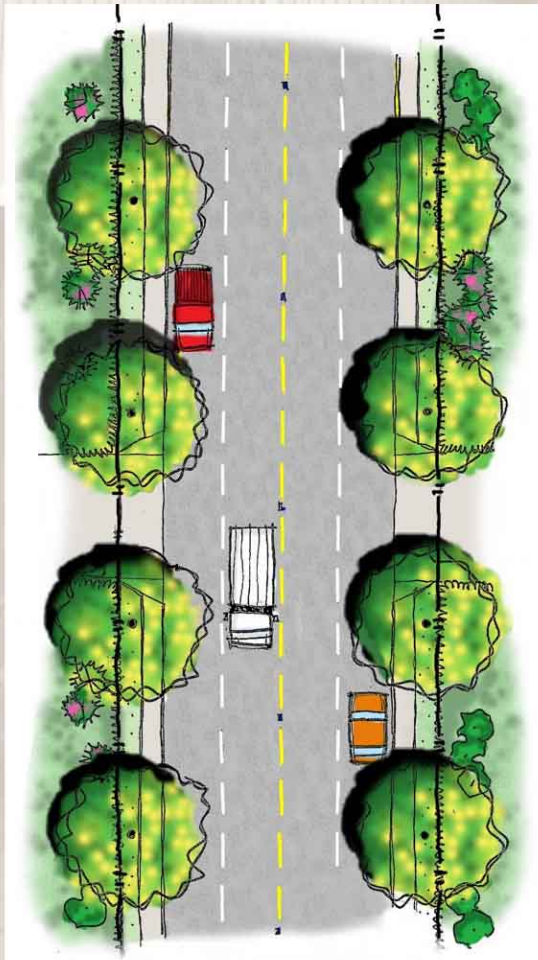
Industrial Roads



- TWO LANES OF TRAFFIC
- PARALLEL PARKING ON BOTH SIDES
- DURING RUSH HOUR PARKING BECOMES TRAVEL LANE
- BIKES SHARE ROADWAY
- CAN BE DONE WITHIN EXISTING RIGHT-OF-WAY

# TRANSPORTATION NETWORKS

## INDUSTRIAL STREETS – LĪHU'E HANAMĀ'ULU PROJECT



- TWO LANES OF TRAFFIC
- PARALLEL PARKING ON BOTH SIDES
- DURING RUSH HOUR PARKING BECOMES TRAVEL LANE
- BIKES SHARE ROADWAY
- LANDSCAPE SETBACKS REQUIRED ON PRIVATE LAND